



ELSEVIER

Colloids and Surfaces

A: Physicochemical and Engineering Aspects 174 (2000) 419–420

COLLOIDS
AND
SURFACES

A

www.elsevier.nl/locate/colsurfa

Contents of Volume 174

Vol. 174 Nos. 1–2

(Special Issue: Special Issue on Imaging in Colloidal Systems)

| | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Preface | 1 |
| Cryo transmission electron microscopy of liposomes and related structures | |
| M. Almgren, K. Edwards and G. Karlsson (Uppsala, Sweden) | 3 |
| Characterization of emulsions and suspensions in the petroleum industry using cryo-SEM and CLSM | |
| R.J. Mikula and V.A. Munoz (Devon, Canada) | 23 |
| Applications of environmental scanning electron microscopy to colloidal aggregation and film formation | |
| A.M. Donald, C. He, C.P. Royall, M. Sferrazza, N.A. Stelmashenko and B.L. Thiel (Cambridge, UK) | 37 |
| Inhomogeneous distribution of charged colloidal particles studied by confocal laser scanning microscopy | |
| K. Ito (Toyama, Japan) and H. Yoshida (Ibaraki, Japan) | 55 |
| The mystery of colloidal crystal formation — novel aspects obtained by ultra-small-angle X-ray scattering | |
| T. Harada, H. Matsuoka, T. Ikeda and H. Yamaoka (Kyoto, Japan) | 79 |
| The significant information for colloidal crystal formation revealed by ultra-small-angle synchrotron X-ray and neutron scattering | |
| T. Harada, H. Matsuoka, T. Ikeda, H. Yamaoka (Kyoto, Japan), N. Hamaya (Tokyo, Japan), S. Sasaki (Yokohama, Japan), T. Mori (Tsukuba, Japan), M. Hashimoto and T. Takahashi (Tokyo, Japan) | 99 |
| Statistical study of two-dimensional colloidal crystals based on microscopic images and optical diffraction | |
| B. Li, I. Avrutsky, Y. Zhao and G. Mao (Detroit, MI, USA) | 113 |
| Diffusion of an isolated colloidal sphere confined between flat plates | |
| B. Lin, J. Yu and S.A. Rice (Chicago, IL, USA) | 121 |
| Applications of colloidal force measurements using a microcollider apparatus to oil sand studies | |
| X. Wu, I. Laroche, J. Masliyah, J. Czarnecki (Edmonton, Canada) and T. Dabros (Devon, Canada) | 133 |
| Micron-scale tensiometry for studying density-matched and highly viscous fluids — with application to bitumen-in-water emulsions | |
| K. Moran, A. Yeung, J. Czarnecki and J. Masliyah (Edmonton, Canada) | 147 |
| Visualization of water transport in $W_1/O/W_2$ emulsions | |
| L. Wen and K.D. Papadopoulos (New Orleans, LA, USA) | 159 |
| Micropipette: a new technique in emulsion research | |
| A. Yeung (Edmonton, Canada), T. Dabros (Devon, Canada), J. Masliyah and J. Czarnecki (Edmonton, Canada) | 169 |
| Thin liquid film technique — application to water–oil–water bitumen emulsion films | |
| K. Khristov (Sofia, Bulgaria), S.D. Taylor, J. Czarnecki and J. Masliyah (Edmonton, Canada) | 183 |
| Meso-scale imaging of patterned surfaces by decoration with liquid crystals | |
| R.R. Shah, D.M. Heinrichs and N.L. Abbott (Madison, WI, USA) | 197 |
| Transport and chemistry at electroactive interfaces studied using line-imaging Raman spectroscopy | |
| D.T. Schwartz and S.M. Haight (Seattle, WA, USA) | 209 |
| Mesostructured fluids: supra aggregates made of interdigitated reverse micelles | |
| A. Filankembo, P. André, I. Lisiecki, C. Petit (Paris, France), T. Gulik-Krzywicki (Gif-sur-Yvette, France), B.W. Ninham (Canberra, Australia) and M.P. Pileni (Paris, France) | 221 |
| Atomic force microscope imaging of molecular aggregation during self-assembled monolayer growth | |
| I. Doudevski, W.A. Hayes, J.T. Woodward and D.K. Schwartz (New Orleans, LA, USA) | 233 |
| AFM on humic acid adsorption on mica | |
| A. Liu, R.C. Wu, E. Eschenazi and K. Papadopoulos (New Orleans, LA, USA) | 245 |
| Atomic force and optical force microscopy: applications to interfacial microhydrodynamics | |
| R. Rajagopalan (Gainesville, FL, USA) | 253 |
| Detection of point mutations in DNA by PNA-based quartz-crystal biosensor | |
| P. Wittung-Stafshede (New Orleans, LA, USA), M. Rodahl, B. Kasemo (Gothenburg, Sweden), P. Nielsen (Copenhagen, Denmark) and B. Norden (Gothenburg, Sweden) | 269 |

| | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Structured materials syntheses in a self-assembled surfactant mesophase S. Li, G.C. Irvin, B. Simmons, S. Rachakonda, P. Ramannair, S. Banerjee, V.T. John, G.L. McPherson, W. Zhou (New Orleans, LA, USA) and A. Bose (Kingston, RI, USA) | 275 |
| Calendar | 283 |

Vol. 174 No. 3

| | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| Argon plasma treatment of polystyrene microtiter wells. Chemical and physical characterisation by contact angle, ToF-SIMS, XPS and STM J. Davies, C.S. Nunnerley, A.C. Brisley, R.F. Sunderland, J.C. Edwards (Bucks, UK), P. Krüger, R. Knes (Schwedt/Oder, Germany), A.J. Paul and S. Hibbert (Manchester, UK) | 287 |
| Dynamics of polymer-induced hetero-flocculation of wood fibres and fines T. Asselman and G. Garnier (Montreal, Canada). | 297 |
| Monosize and non-porous p(HEMA-co-MMA) microparticles designed as dye- and metal-chelate affinity sorbents A. Denizli, H. Yavuz (Ankara, Turkey) and Y. Arica (Kırıkkale, Turkey) | 307 |
| Preparation and porous structure of carbon-silica adsorbents obtained on the basis of Ti, Co, Ni, Cr, Zn and Zr acetylacetonates and acetylacetone R. Lebeda, J. Skubiszewska-Zięba (Lublin, Poland) and J. Rynkowski (Łódź, Poland) | 319 |
| Study of the interaction of cholesterol with potentially hypocholesterolemic substances in a monolayer form R. Seoane, J. Miñones, O. Conde and J. Miñones, Jr (Santiago de Compostela, Spain) | 329 |
| Local anesthetic tetracaine influences the physical properties of globular proteins T. Hianik, P. Rybár, L. Šikurová, J. Dujsík, R. Krivánek, D. Chorvát (Bratislava, Slovak Republic), V.S. Markin and D.F. Landers (Dallas, TX, USA) | 341 |
| Adsorption of acrylic copolymers at the alumina-water interface Y. Liu, L. Gao and J. Guo (Shanghai, People's Republic of China). | 349 |
| Comparisons of the effects of pH on the interfacial tension-lowering activity of surfactants Triton X-100 and Triton SP-190 C.-M. Chen, C.-H. Chang, Y.-M. Yang and J.-R. Maa (Tainan, Taiwan, ROC) | 357 |
| The optical size-dependent properties of pyrazolines nanocrystals H.-B. Fu, R.-M. Xie, Y.-Q. Wang and J.-N. Yao (Beijing, PR China) | 367 |
| New approach for the studies of physicochemical parameters of interaction of Triton X-100 with cationic surfactants H. Gharibi, B.M. Razavizadeh and M. Hashemianzaheh (Tehran, Iran) | 375 |
| Preparation and structural properties of Pd nanoparticles in layered silicate A. Szűcs, F. Berger and I. Dékány (Szeged, Hungary). | 387 |
| Vesicle formation of 1:1 cationic and anionic surfactant mixtures in <i>N,N</i> -dimethylformamide and tetrahydrofuran solutions J.-B. Huang, R. Yang, B.-Y. Zhu, X. He and H.L. Fu (Beijing, PR China) | 403 |
| Calendar | 411 |
| Author Index. | 415 |
| Subject Index. | 417 |
| Volume Contents | 419 |

